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APPLICATION NO.	. FI	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/805,902	02 03/22/2004		Wen Liang Gao	871-011491-US (PAR)	1913
2512	7590	03/08/2006		EXAMINER	
PERMAN		N	ALLAWI, ALI		
425 POST I FAIRFIELI		824		ART UNIT	PAPER NUMBER
,				2877	
				DATE MAILED: 03/08/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
		10/805,902	GAO, WEN LIANG			
	Office Action Summary	Examiner	Art Unit			
		ALI ALLAWI	2877			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SH WHIC - Exter after - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPLICATION OF THE MAILING DISTRICT OF THE MAILIN	ATE OF THIS COMMUNICATION (36(a). In no event, however, may a reply be time will apply and will expire SIX (6) MONTHS from (a) cause the application to become ABANDONE!	<ol> <li>I. ely filed</li> <li>the mailing date of this communication.</li> <li>D (35 U.S.C. § 133).</li> </ol>			
Status						
2a)□	· · · · · · · · · · · · · · · · · · ·	s action is non-final. nce except for formal matters, pro				
Dispositi	ion of Claims					
5)□ 6)⊠ 7)□	Claim(s) 1-13 is/are pending in the application 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 1-13 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	wn from consideration.				
Applicati	on Papers					
10)⊠	The specification is objected to by the Examine The drawing(s) filed on 11 June 2004 is/are: a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	) $\square$ accepted or b) $\square$ objected to drawing(s) be held in abeyance. See tion is required if the drawing(s) is obj	e37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority u	ınder 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da	ite			
3) Inform	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	5) Notice of Informal Page 6) Other:	atent Application (PTO-152)			

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## **DETAILED ACTION**

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Roy et al. (6,118,540) in view of Carmeli et al. (6,414,708).

In regards to claims 1, 7, and 13 Roy et al. discloses a method and apparatus for inspection comprising a source for emitting a light beam and a sensor for capturing images of a target area, and an optical system creating a plurality of paths for illuminating the target area, the optical system arranged such that a 2D image and a 3D image of the target area appear in a same focal plane for capture by the sensor and have the same optical path length from the target area to the sensor. (Abstract, Fig. 1 and 2, Col. 4: 24-67)

Roy et al. does not disclose a splitting method of a single light beam into a plurality of paths for illuminating the target, instead, Roy et al. discloses an apparatus in which multiple laser light sources with similar optical characteristics can be utilized to create multiple paths and directions on which to illuminate a target.

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Carmeli et al. however discloses a method and apparatus for inspection of a target that utilizes a beam splitter within an optical system for splitting the light beam into a plurality of paths for illuminating the target. (Fig. 1, 4-11, Col. 6: 28-43)

It would have been obvious to a person of ordinary skill in the art at the time of the invention to substitute the multiplicity of laser sources with a beam splitter for multi path directions of one source to allow for more compact design and uniformity in the signal.

In regards to claims 2-4 and 8-10, Roy et al. further discloses an inspection system wherein the source is a laser line generator, the sensor is an addressable camera, and the target area is a point. (Fig. 2, 8-9)

In regards to claims 5-6 and 11-12, Carmeli et al. further discloses an optical inspection system comprising first and second mirrors wherein the light beam impinges on the mirrors and is reflected onto the target from the first mirror in one direction and from the second mirror in another direction. Carmeli et al. further discloses the mirrors to be adjustable horizontally, vertically, and angularly. (Fig. 4-11)

### Additional Prior Art

The prior art made of record and not relied upon is considered pertinent to the applicant's disclosure. The references listed in the attached form PTO-892 teach of other prior art that may anticipate or obviate the claims of the applicant's invention.

### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ali Allawi whose telephone number is **571 272 8285**. The examiner can normally be reached on Monday through Friday, 8am to 4pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gregory J. Toatley, Jr. can be reached on **571 272 2800 ext. 77**. The fax phone number for the organization where this application or proceeding is assigned is **571 273 8300**.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

HWA (ANDREW) LEE PRIMARY EXAMINER

Gregory J. Toatley, Jr.

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ÁA 01/03/2006